

## CAPACITORS

## ALUMINIUM AXIAL CEA

- Miniature case sizes
- 2000 hour long-life grade
- High ripple-current

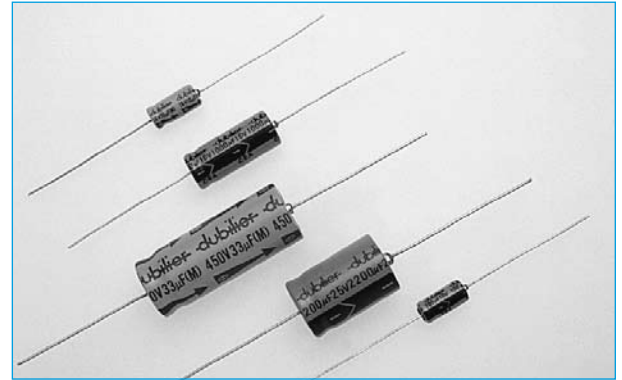
The CEA is a premium-quality axial electrolytic capacitor. The product offers reduced case sizes over products previously available, and is also rated as a long-life capacitor.

Typical applications will include telecommunications, automotive and heavy industrial uses.

Product is available loose or taped and reeled. Large stocks are held both at our main site plus a wide variety of distributors.

Sizes may reduce as technology continually improves.

Product with a case diameter of 10mm or less will be supplied taped only.



## SPECIFICATION

<b>Temperature</b>	-40 to +85°C	<b>Leakage Current</b>	≤ 100V: < 0.01CV or 3µA	whichever larger (> 5 mins)
<b>Life time</b>	2000 Hours @ +85°C, 1000 Hours for ø8mm and below			
<b>Tolerance</b>	± 20%			

## RANGE

V	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
µF	DxL/mm	Dx/Lmm	Dx/Lmm	DxL/mm	DxL/mm	DxL/mm	DxL/mm	DxL/mm	DxL/mm	DxL/mm	DxL/mm	DxL/mm	DxL/mm	DxL/mm
0.47							→	5x12.5	6.3x12.5	6.3x12.5	6.3x12.5	6.3x12.5	6.3x16	6.3x16
1.0							→	5x12.5	6.3x12.5	6.3x12.5	6.3x16	8x16	8x16	8x16
2.2							→	5x12.5	6.3x16	6.3x16	8x16	8x16	8x16	8x20
3.3						→	5x12.5	6.3x12.5	8x16	8x16	8x16	8x20	8x20	8x20
4.7						→	5x12.5	6.3x12.6	8x16	8x16	8x20	10x20	10x20	10x20
10						→	5x12.5	6.3x12.5	8x20	8x20	10x16	10x20	10x25	13x21
22			→	5x12.5	6.3x12.5	6.3x12.5	6.3x16	8x16	10x20	10x20	10x25	13x21	13x25	13x30
33			→	5x12.5	6.3x12.5	6.3x16	8x16	8x16	10x25	10x25	12.5x21	13x25	13x30	16x30
47		→	5x12.5	6.3x12.5	6.3x12.5	6.3x16	8x16	8x20	12.5x21	12.5x25	13x25	13x30	13x33	16x30
100		→	6.3x12.5	6.3x16	8x16	8x16	8x20	10x25	13x30	16x30	16x33	16x40	18x40	22x40
220	→	6.3x16	8x16	8x16	8x20	10x20	10x25	13x30	16x30	16x40	18x40	22x40		
330		→	8x16	8x20	10x20	10x25	12.5x25	16x25	18x40	22x41				
470	→	8x16	8x20	10x20	10x25	12.5x25	12.5x30	16x40	22x41					
1000	8x20	10x20	10x25	12.5x25	12.5x25	16x25	16x30	22x40						
2200	10x25	12.5x25	12.5x25	16x25	16x33	18x40	22x40							
3300	12.5x25	12.5x25	16x26	16x30	16x40	22x40								
4700	12.5x30	16x25	16x33	16x40	18x40	22x40								
6800	16x30	16x30	18x40	22x40	22x50									
10000	18x40	18x40												

Sizes may reduce as technology continually improves.

## ORDERING INFORMATION

CEA	100	16	TR
Range	Capacitance µF	Voltage V	Options: TR = Tape/Reel Blank = Loose

### TAN $\delta$

Voltage (V)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	500
Tan $\delta$	0.24	0.20	0.17	0.15	0.12	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.25	0.25

### ENDURANCE

Test time/Hr	2000
Leakage current/ $\mu$ A	Less than or equal to initial value
Capacitance/ $\mu$ F	Within $\pm$ 20% of initial value
Tan $\delta$	200% or less than initial value

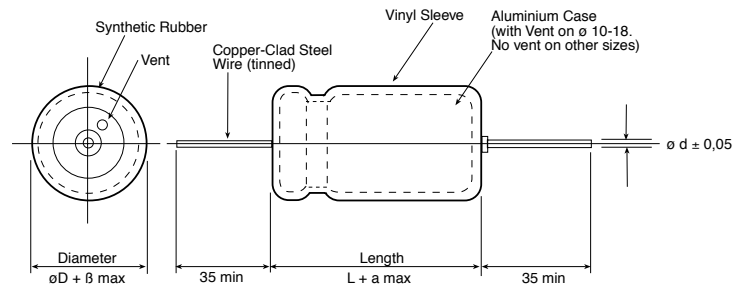
### RIPPLE CURRENTS

V/ $\mu$ F	6.3	10	16	25	35	50	63	100	160	200	250	350	400	500
0.47								12	9	9	9	9	9	10
1.0								21	14	13	14	15	15	16
2.2							25	28	23	25	27	27	29	31
3.3						30	32	35	33	34	35	37	37	38
4.7				29	31	36	35	42	39	42	45	50	50	50
10			40	42	47	42	40	68	63	67	70	75	80	85
22		54	62	63	72	53	58	145	130	125	140	150	150	150
33		66	72	85	95	70	121	150	170	180	190	200	215	230
47		79	95	91	125	121	130	192	225	240	255	290	295	300
100	110	150	125	156	210	194	265	345	270	425	430	400	450	500
220	204	204	221	257	345	335	450	560			680			
330	300	249	320	365	440	440	550	770						
470	396	400	450	480	640	550	750	970						
1000		585	680	850	1050	992	1100	1447						
2200		929	1000	1200	1580	1250								
3300		1090	1200	1200	2050	1400								
4700		1200	1380	1500	2470	1600								
6800			1800		2720									
10000		1600	2680											

### RIPPLE COEFFICIENTS - FREQUENCY

Freq(Hz)	60	100	1k	10k	20k
Under 160	0.95	1.00	1.10	1.30	1.33
160 or more	0.90	1.00	1.20	1.50	1.55

### OUTLINE DRAWING



### RIPPLE COEFFICIENTS - TEMPERATURE

Temp/°C	<40	55	70	85
Coeff	2.9	2.4	1.9	1.0

### DIMENSIONS (mm)

øD	6.3	8	10	12.5	16	18	22.4
ød	0.6			0.8			
a (Tol)	1.5				2.0		
β (Tol)	0.5			1.0			